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PHOTOGRAPHIC INTERPRETATION REPORT

# CHRONOLOGY OF UFA AIRCRAFT ENGINE PLANTS 26A AND 26B USSR

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# CHRONOLOGY OF UFA AIRCRAFT ENGINE PLANTS 26A AND 26B USSR

## INTRODUCTION

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This report is a study of the chronological development of Ufa Aircraft Engine Plants 26A and 26B respectively). The plants are located at 54-47-35N 056-07-28E and 54-47-58N 056-04-18E, 7.5 and 6.5 nautical miles (nm), respectively, northeast of the center of the city of Ufa, USSR (Figure 1). The plants are approximately 2 nm apart and are believed to be interrelated in their function of jet- and rocket-engine production. 1,2/ They are served by numerous all-weather roads and rail spurs of the Ufa-Chelyabinsk rail line and are connected by road to Ufa Airfield South approximately 18 nm south-southwest of the plants. Photography covering Plants 26A and 26B includes 1942 World War II photography of good interand 1943 film of fair-

pretability (Figures 2 and 3), film of fair-to-poor interpretability obtained between 1961 and 1966, and Plants 26A and 26B (Figure 4) have expanded to cover areas of 335 and 250 acres, respectively, since the first photography in 1942. Recent photography reveals that Plant 26A (Figure 5) encompasses approximately 2.9 million square feet of roof cover and Plant 26B (Figure 6) approximately 2.1 million square feet. Although Plant 26A has only a very small engine test facility and meager administration/engineering support, the plant includes a large amount of industrial production floorspace and will soon have an even greater capability when a new 840,000-square-foot fabrication/assembly building is completed.

test cells. The test function at this plant will be increased when a new building containing 10 new probable horizontal engine test cells is completed, perhaps in 1968.

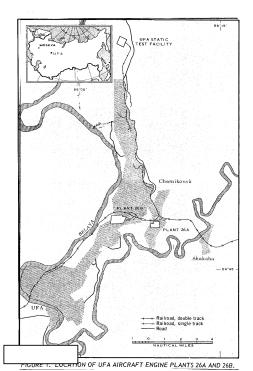
An activity possibly related to Plants 26A and 26B is Ufa Static Test Facility Ufa Rocket

Engine Test Facility), located approximately 10.5 nm north

Plant 26B also includes a large amount of production

floorspace and, in addition, 7 large and 6 smaller engine

of Plants 26A and 26B. This facility contains 4 probable horizontal rocket engine test positions and has been determined to be generally similar to the Nizhnyaya Salda Static Test and Faustovo Rocket Engine Test Facilities



Zelenogorsk Static Test Facility
It is also possible that the Ufa Static Test Facility is associated with rocket engine fuel and lubricants research and development conducted at the nearby Ufa Petroleum Refinery Novo Chernikovsk

Detailed information on structures in the plants is provided in Tables 1 and 2 and Figures 5 and 6.

#### HIGHLIGHTS OF CHRONOLOGY

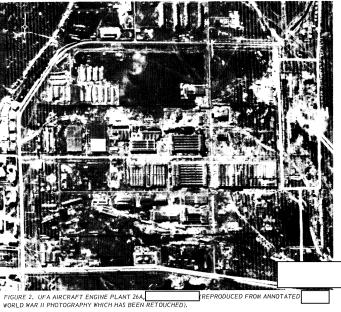
photography of Plants 26A and 26B revealed that they included approximately 1.3 million and 1.1 million square feet of roof cover, respectively. Plant 26A consisted primarily of 4 assembly buildings (items 18 and 24-26, Figure 5), 4 shops (items 30E, 31, 45, and 47), and an inspection/test building (item 16A). The test cells of the latter building had not been completed at the time of the photography. Plant 26B consisted primarily of 1 large and 1 smaller assembly building (items 21 and 33, Figure 6) and a forge/foundry (item 14B). No known engine test facilities were operational at either plant in this period; however, only simple test stands, which are not readily discernible, would have been required for tests of the radial air-cooled aircraft engines which were in production at that

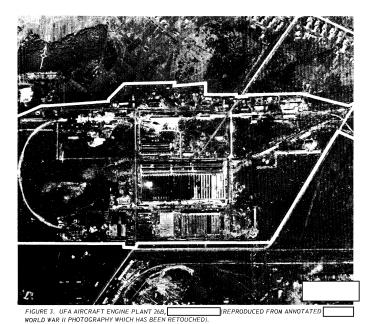
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1962-1963

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In the 20 years since the previous coverage, Plant 26A was expanded by only a few significant structures, but Plant 26B was expanded considerably.

The 4-cell engine test facility (item 16B, Figure 5) at Plant 26A was completed, a major shop was expanded (items 30A and 30B), and a new assembly building (item 4) and numerous small utility/support and administration buildings were completed. Plant 26B was provided with a new building containing 7 large U-type jet-engine test stands (item 15A, Figure 6) with diffusers of varying heights and 6 small U-type engine test cells (item 15B) with unique silenc-

ers/deflectors. In addition, a large new assembly-type building (item 22) was constructed, the shop space of the plant was more than doubled, and its utility and administration support facilities were enlarged.

#### 1964-1965

Only very minor improvements were made at Plants 26A and 26B during this period. At Plant 26A a new small shop (item 3, Figure 5) and a small warehouse (item 10) were built; at Plant 26B only 1 medium-sized new shop/assembly building (item 18, Figure 6) was completed.

## 1966-1967

In this period, at Plant 26A, 1 new medium-sized assembly building (item 22, Figure 5) was added, a major shop was expanded (items 30C and 30D), and, most importantly, a very large new fabrication/assembly building (item 1) was observed under construction. The roof cover of this building will be approximately 840,000 square feet. At Plant 26B no significant modifications or completion of new structures occurred during 1966-1967, but early work on a new probable 9- or 10-cell engine test building (item 6, Figure 6) was noted.

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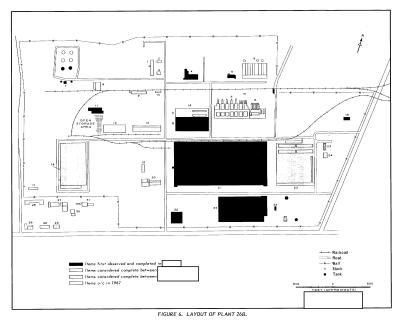
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Table 2. Data on Ufa Aircraft Engine Plant 26B (Item numbers are keyed to Figure 6)



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em Vo	Function	Dimensions (ft)* L W H	Roof Cover (sq ft)	Date First Observed**	Comments
I	Utility bldg				]
2	Utility bldg				
3	Utility bldg				
4	Boilerhouse				
5 6	Utility bldg Prob engine test bldg				Bldg aprx 20% complete. Will
					prob house 10 horizontal test cells. Pipe sections in area are aprxin diam
7	Pump bldg				
8	Transshipment bldg	1			
9	Transshipment bldg	1			
.0	Transshipment bldg	1			
.1	Warehouse Warehouse	1			
.3	Warehouse	1			
4A	Shop	1			
4A 4B	Forge/foundry	1			
5A	Engine test bldg	1			Bldg contains 7 large U-type
5B	Engine test bldg				engine test cells. Shorter diffusers are aprx high Contains 6 small U-type engine
					test cells. The date of com- pletion of their silencers/ de- flectors cannot be established with certainty, but is prob 196:
16	Admin bldg				
7	Utility bldg				l
.8	Shop/assembly bldg				Completed by
9	3-cell water cooling				
	tower				Bldg prob completed in 1942, bu
0	Diesel powerplant				this cannot be established due to interpretability of photography
21	Final assembly bldg				F
22	Assembly-type bldg	1			
3	Utility bldg	1			
4	Utility bldg	1			
5	Utility bldg	1			
6	Utility bldg	1			
7	Utility bldg	1			
8	Utility bldg	1			
9	Utility bldg	1			
0	Utility bldg	1			
1	Switching bldg	1			
2	Warehouse Assembly bldg	1			
3	Assembly bldg Utility bldg	1			
34 35	Pump bldg	1			
	r ump blug				

<sup>\*</sup>All measurements are accurate to 25' or 5%, whichever is greater.
\*\*Items were complete when first observed unless otherwise noted.

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MAPS OR CHARTS	
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REQUIREMENT	
CIA. C-DI5-82,973	
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